
KODAK PLAYFULL Waterproof Video Camera / Ze2



Extended user guide

www.kodak.com

For help with your camera:

www.kodak.com/go/Ze2support

Kodak

Eastman Kodak Company
Rochester, New York 14650
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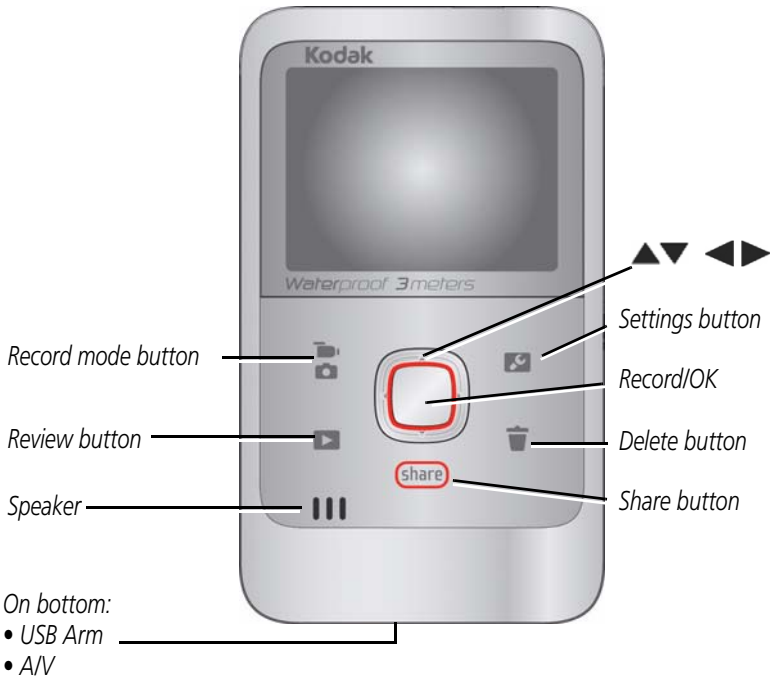
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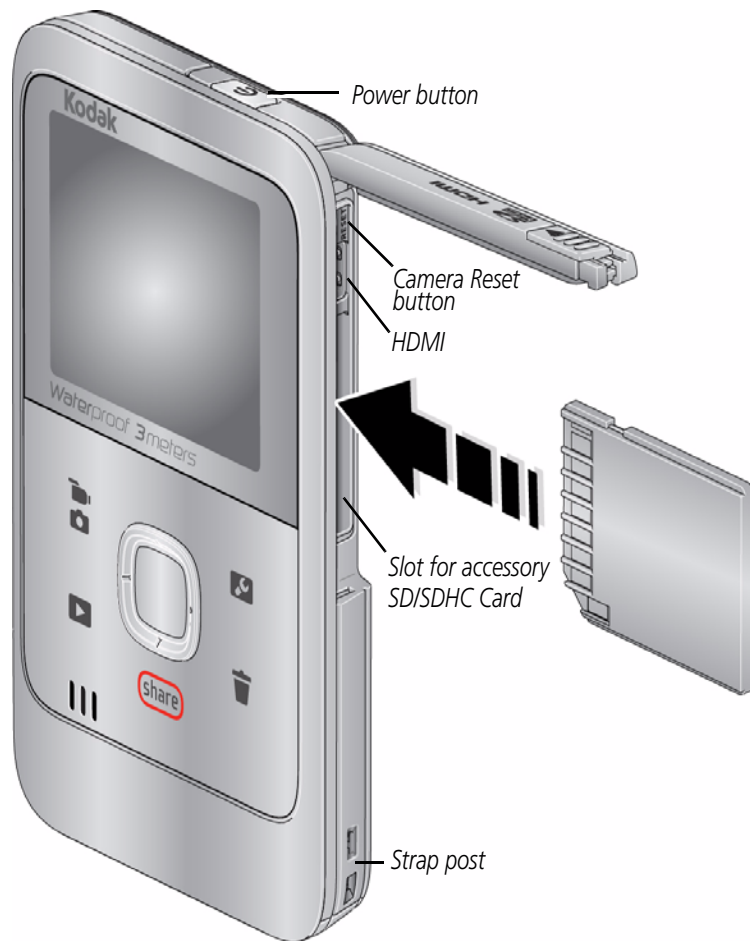
Front view



Back view



Side view



Understanding the status icons

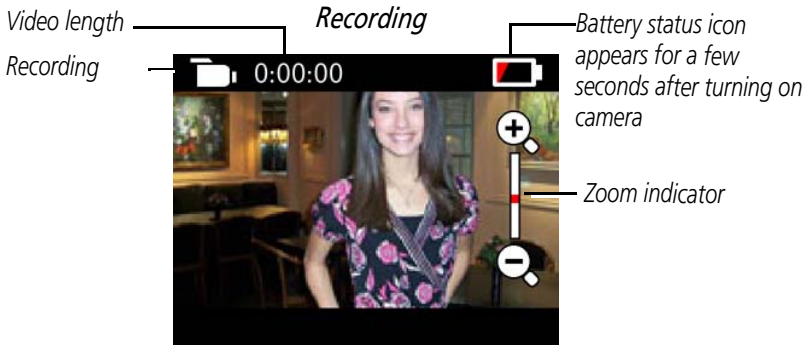


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1

Setting up your camera

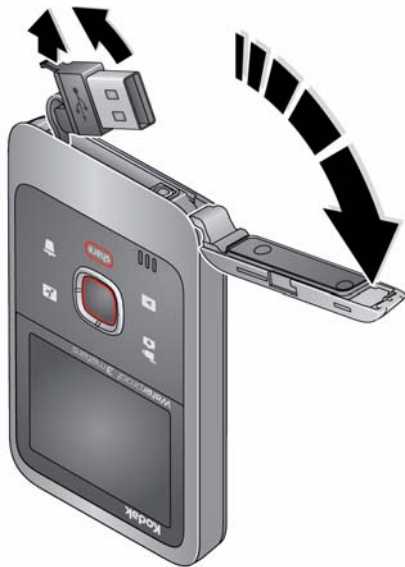
Opening the USB/battery charging door

The non-removable battery charges when the computer is on and awake; disable your computer's hibernation, sleep, and standby modes. Charge the battery as often as you like—you can't over-charge it—and always fully charge before using.

① Unlock the door.

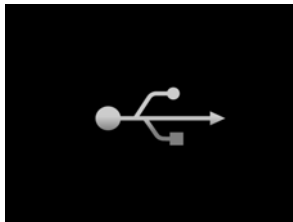


② Open the door.



Charging the non-removable battery

Charging takes about two hours.



NOTE: When properly connected to your computer USB port, a USB icon appears.

Turning on the camera



Setting the language and date/time



Language

▲▼ to change.
OK to accept.

Date/Time

At the prompt, press OK.
◀▶ to change current field.
▲▼ for previous/next field.
OK to accept.

Change language and date/time later [page 11](#)

Inserting an accessory SD or SDHC Card

Your camera has limited internal memory—perfect for a few practice videos/pictures. For the best experience, we strongly suggest purchasing a card (SDHC Class 4 or higher) to store more. (Maximum supported size: 32 GB.)



CAUTION:

A card can only be inserted one way; forcing it may cause damage. Inserting or removing a card while the camera is on may damage the video/pictures, the card, or the camera.

- 1 Turn off the camera.
- 2 Insert the card until it clicks.

To remove the card, press and release it, then pull it out.



IMPORTANT: *When you turn on the camera, it checks to see if a card is inserted. If so, new pictures/videos are stored on the card. If no card is inserted, new pictures/videos are stored in the camera internal memory. If pictures/videos are detected in internal memory and a card is inserted, the camera prompts you to move the pictures to the card (and erase those in internal memory).*

Purchase cards www.kodak.com/go/accessories

Attaching the strap

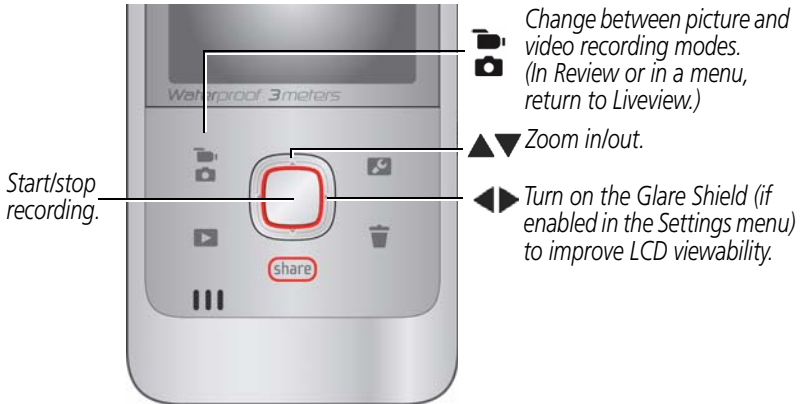


2

The basics

Recording videos, taking pictures

When you turn on the camera, it's ready to record.



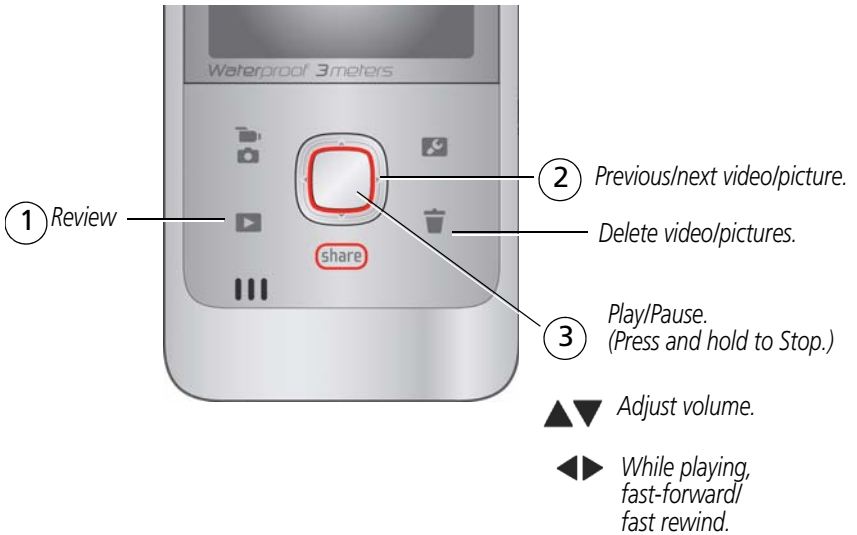
Changing recording modes

To change recording modes, press . (If you're in Review mode, press to return to Liveview.)

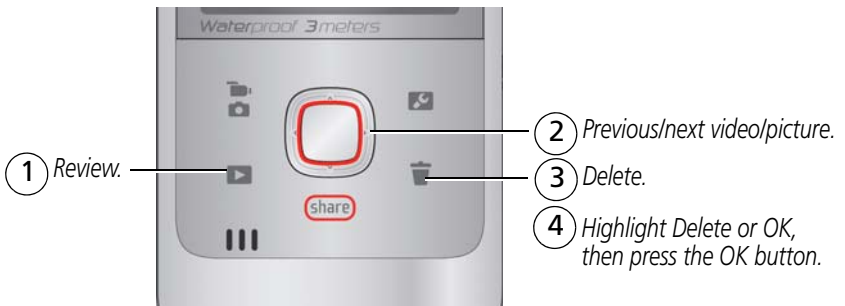
HD 720p (30 fps)	WVGA (iPad Compatible, 30 fps)	Still
for viewing on a TV or computer, and for sharing on YouTube and FACEBOOK	for conserving memory card space	for 1 MP 16:9 pictures

IMPORTANT: For the best experience, we strongly suggest purchasing a Class 4 or higher SDHC Card. www.kodak.com/go/accessories

Reviewing videos/pictures



Deleting videos/pictures



Transferring, sharing online, editing

- 1 Connect the camera to the computer USB port. (It turns on automatically.)
- 2 If this is the first time you've connected to this computer, follow the prompts to install the KODAK Share Button App.
- 3 Follow the on-screen instructions to transfer and share videos.



NOTE: It may be convenient to use a USB extension cable to connect the camera to the computer.

WINDOWS OS-based computers: Install ARCSOFT MEDIAIMPRESSION for KODAK Software to help organize and edit videos.

MAC OS-based computers: Use the APPLE ILIFE suite of products to edit, personalize, and make DVDs.

Share Button App doesn't install?	Download the right version for your computer operating system: www.kodak.com/go/camerasw
Get ArcSoft product support	www.arcsoft.com/support
See HD video system requirements for playback on your computer	www.kodak.com/go/HDsysreq





3

Advanced features

Using the camera under water

The camera does not float. Secure it to your wrist with the strap (see a floating accessory strap at www.kodak.com/go/accessories). To keep the camera waterproof, tightly close and latch all doors. **Do not open doors in water or when hands are wet.** Waterproof integrity may be compromised if the camera is dropped. For more information, [see page 18](#).

For the best focus and color balance under water:

- 1 Press the Settings button , then  to choose Underwater Correction.
- 2 Press OK, then  to select ON.
- 3 Press OK.
- 4 Press the Mode button  to take videos/pictures.
- 5 Verify that your subject is within the underwater focus range (0.7 m [2.3 ft] to infinity).

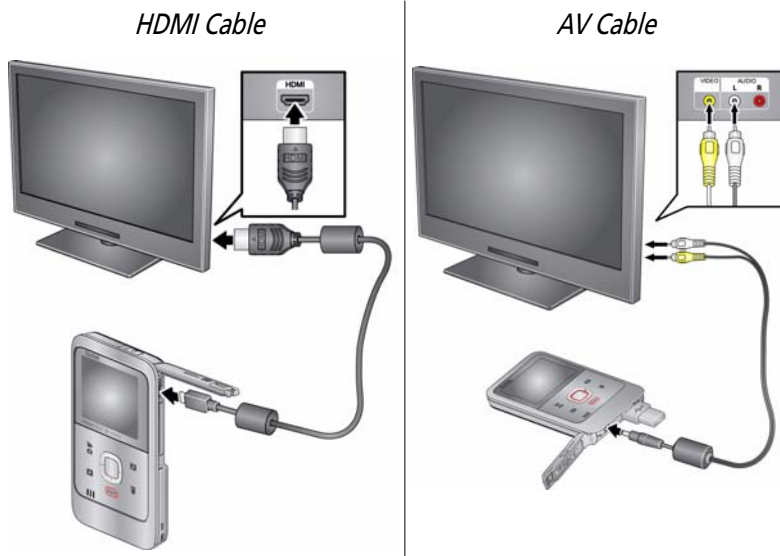
IMPORTANT: *Verify that all doors are tightly closed. This camera is waterproof to a depth of 3 meters (9.8 feet).*

After using the camera in water

- When finished using under water, go to Step 1 and turn off Underwater Correction.
- Wipe off water or debris. If the camera was used in chemically treated water or saltwater, rinse it in fresh water, then use a soft towel to dry it.
- If water has entered the camera, remove the card. Allow the camera to air-dry for at least 24 hours before using.

Viewing videos/pictures on a TV

If you have an HD television, use an HDMI cable—and get the richest playback experience. (Cables sold separately.)



NOTE: Set your TV input setting to HDMI or AV.

Set Video Output (NTSC/PAL)	page 11
Power the camera by AC power (AC adapter sold separately)	www.kodak.com/go/accessories
Purchase accessories	www.kodak.com/go/accessories

Using the settings menu



- ① Press the Settings button.
- ② Press ▲▼ to select a setting.











LCD Brightness & Glare Shield	Turn on when viewing the LCD in bright conditions. (See page 6.)
Underwater Mode	Use when taking videos/pictures under water.
Effects	Normal Color, Sepia, B&W, High Saturation, or 70s Film
Video Resolution	HD 720P, WVGA
Microphone Gain	Adjust sensitivity of the internal microphone.
Sounds	Turn on/off sounds.
Date/Time	Set the date/time
Share Settings	Choose which sites and email addresses are offered when you share.
Video Output	Choose the setting (NTSC, PAL) for your region.
Language	Choose your language.
Reset Settings	Return all settings to their factory default.
Format Card	Erase, format the card.
About	View firmware and ARCSOFT Software versions

Using the Settings menu in Review

If you're reviewing		you also get these choices
a video	and you press the Settings button	Trim —See page 12 . Make Picture —See page 13 .
a picture		Zoom and Pan —See page 13 .





Trimming a video

Use the Trim Video feature to remove an unwanted video start and/or finish, leaving only the desired portion.





- 1 Press the Review button , then  to find a video to trim.
Optional: Play, then pause the video at the desired new start point.
 - 2 Press the Settings button .
 - 3 Press  to choose Trim Video, then press OK.
An instruction screen appears. After you read it, press OK.
 - 4 When prompted, press  to move the Start marker to the new position, then press OK. Press  to move the End marker to the new position, then press OK.
- NOTE: If you need to make adjustments, press  to highlight the Start or End marker, then press  to move it. When finished, press OK.
- 5 When prompted, preview your edit or save the edit without previewing. Save the video, or select Save As if you want to keep the existing video, as well.

Making a picture from a video

You can choose a single frame from a video, then make it into a picture. (Size and quality depend on video resolution.)

- 1 Press the Review button , then  to find a video from which you want to extract a single video frame.
- 2 Play, then pause the video at the desired frame.
- 3 Press the Settings button .
- 4 Press  to choose Make Picture, then press OK.
- 5 Follow the prompts to save the picture.


Zooming and panning a picture

- 1 Press the Review button .
- 2 Press  to choose a picture.
- 3 Press OK repeatedly to choose 2x, 4x, 8x, then back to 1x.
- 4 Use   to pan the picture.

4

Getting help

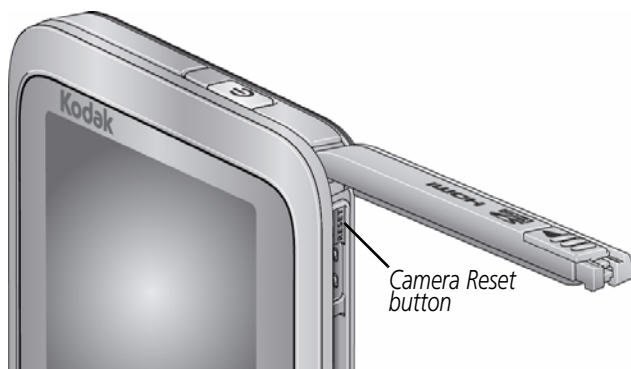
Troubleshooting

Problem	Solution
 Low battery.	■ Charge the battery (page 1).
Card or internal memory is nearly full.	■ Transfer videos/pictures to your computer (page 8), then format (erase) the card in the camera (page 11) or card reader, or use another card (page 4).
Corrupt or unusable card.	■ For the best experience, we strongly suggest purchasing a Class 4 or higher SDHC Card.
Unrecognized file.	■ Transfer videos/pictures to your computer (page 8).
Camera will not turn off.	■ Use a pin or paperclip to press the Camera Reset button (page 15).
Camera will not turn on.	■ Ensure that the battery is charged (page 1). ■ Ensure the camera is clean and dry. (If it's wet inside, open all doors. Remove the card. Do not turn on the camera. Let it dry for at least 24 hours.)
LCD is hard to see.	■ Turn on the LCD Glare Shield in the Settings menu (page 11), then enable it in Liveview (page 6).
Videos are choppy or jumpy when played on a computer.	■ Use ARCSOFT MEDIAIMPRESSION for KODAK Software for video playback (page 8). ■ Ensure that the computer system requirements are met. Go to www.arcsoft.com/support or www.kodak.com/go/HDsysreq . ■ For the best experience, we strongly suggest purchasing a Class 4 or higher SDHC Card.
Videos are blurry.	■ Ensure that the lens is clean (page 19). ■ Ensure that the subject is at least 1 m (3.3 ft) from the lens.

Problem	Solution
Videos do not play on a TV.	<ul style="list-style-type: none">■ Verify that an HDMI or AV Cable is properly connected directly to the TV input (page 10).■ Ensure that your TV settings are correct for an HDMI or AV connection.■ Ensure that the Video Output is set correctly (page 11).
Solve problems with ARCSOFT MEDIAIMPRESSION for KODAK Software.	■ Go to www.arcsoft.com/support . (For other applications, go to their support sites.)

Resetting the camera

Use a straightened paper clip, or a pen or stylus tip as appropriate, to press the button gently but firmly for about 1 second. Your camera will turn off. When you turn on the camera again, you may need to reset the Date and Time.



Getting help on the Web

Get support for your product (FAQs, troubleshooting information, arrange for repairs, etc.)	www.kodak.com/go/Ze2support
Purchase camera accessories (lenses, cards, etc.)	www.kodak.com/go/accessories
Download the latest camera firmware and software	www.kodak.com/go/Ze2downloads
Register your camera	www.kodak.com/go/register
Chat, e-mail, write, or phone Kodak (Chat not available in all languages)	www.kodak.com/go/contact
Get information on ARCSOFT Software	www.arcsoft.com/support
Get creative tips and projects ideas	www.kodak.com/go/tips

5

Appendix


Specifications

Image Sensor—1/4-type CMOS, 1280 x 800 pixels

Lens—3.3 mm, f/2.4

Zoom—2X digital

LCD—5.08 cm (2.0 in.); 112K pixels (480 x 234)

Image Storage—32 MB internal memory (approximately 18 MB available for image storage. 1 MB equals one million bytes); optional SD/SDHC Card  (The SD logo is a trademark of the SD Card Association.) Maximum supported size: 32 GB SDHC.

Focusing System—Fixed

Focus Range—0.5 m (1.6 ft)—infinity (under water: 0.7 m [2.3 ft] —infinity)

White Balance—Auto

Exposure—Auto

File Format—Still: JPEG with Kodak EXIF; Video: H.264 (.MP4);
Audio: MPEG-4 AAC LC

- HDV/720p (1280 x 720 @ 30 fps)
- WVGA/30p (848 x 480 @ 30 fps)
- Still (4:3): 1 MP picture

Shutter Speed—Auto

Microphone—Mono

ISO—Auto

Speaker—Mono

I/O Interface—USB 2.0 (high speed); component output; HDMI

Power—Built-in rechargeable Li-polymer battery, 450 mAh

Waterproof —IEC 60529 IPX8 up to 3 m (9.8 ft)

Dustproof— IEC 60529 IP6X

Shockproof —MIL-STD-810f shock equivalent 1.5 m (5 ft) onto plywood

IMPORTANT: *The shock resistance and water resistance of this product are based on Kodak test results and do not constitute any guarantee that the product will perform, will not be damaged, or will not malfunction under such conditions. Though the camera is designed to withstand the effects of impact occurring during normal use, impact due to rough handling (such as throwing or dropping it from excessive heights) can cause serious damage. Even if a drop does not result in functional problems, it can cause scratching and other cosmetic damage to the camera.*

Battery life—Approximately 75 minutes in video recording mode, HDV @ 30 fps

Size—55 x 93.3 x 12 mm (2.2 x 3.7 x 0.5 in.)

Weight—85 g (3.0 oz) with memory card

Operating temperature—0–40° C (32–104° F); do not expose camera to higher temperatures.

Safety



CAUTION:

Do not disassemble this product; there are no user-serviceable parts inside. Refer servicing to qualified service personnel. KODAK AC Adapters and battery chargers are intended for indoor use only. The use of controls, adjustments, or procedures other than those specified herein may result in exposure to shock and/or electrical or mechanical hazards. If the LCD breaks, do not touch the glass or liquid. Contact Kodak customer support.

- The use of an accessory that is not recommended by Kodak may cause fire, electric shock, or injury. For approved accessories, go to www.kodak.com/go/accessories.
- Use only a USB-certified computer equipped with a current-limiting motherboard.

Contact your computer manufacturer if you have questions.

- If using this product in an airplane, observe all instructions of the airline.
- Do not disassemble or expose batteries to liquid, moisture, fire, or extreme temperature.
- In the unlikely event that battery fluid leaks inside the product, contact Kodak customer support.
- In the unlikely event that battery fluid leaks onto your skin, wash immediately with water and contact your local health provider. For additional health-related information, contact your local Kodak customer support.
- Go to www.kodak.com/go/reach for information about the presence of substances included on the candidate list according to article 59(1) of Regulation (EC) No. 1907/2006 (REACH).
- For more information, go to www.kodak.com/go/batteries.

Care and maintenance

- Before inserting or removing the card, make sure your hands, the camera, and the card are completely dry.
- If water has entered the camera, allow all components to air-dry for at least 24 hours before using the camera.
- Do not subject the camera to temperatures lower than 0 (32° F) or higher than 40° C (104° F) for an extended time. Wait until camera reaches operating temperatures before using.
- Blow gently on the lens or LCD to remove dust and dirt. Wipe gently with a soft, lint-free cloth or an untreated lens-cleaning tissue. Do not use cleaning solutions unless designed specifically for camera lenses. Do not allow chemicals, such as suntan lotion, to contact painted surfaces.
- Service agreements may be available in your country. Contact a dealer of KODAK Products for more information.

- For camera disposal or recycling information, contact your local authorities. In the US, go to the Electronics Industry Alliance Web site at www.eiae.org or go to Kodak at www.kodak.com/go/support.

After using the camera in water

- When finished using under water, go to Step 1 and turn off Underwater Correction.
- Wipe off water or debris. If the camera was used in chemically treated water or saltwater, rinse it in fresh water, then use a soft towel to dry it.
- If water has entered the camera, remove the card. Allow the camera to air-dry for at least 24 hours before using.

Limited warranty

Kodak warrants its digital cameras and accessories (excluding batteries) to be free from malfunctions and defects in both materials and workmanship for the warranty period specified on your KODAK Product packaging. Retain the original dated sales receipt. Proof of purchase date is required with any request for warranty repair.

Limited warranty coverage

Warranty service is only available from within the country where the Products were originally purchased. You may be required to ship Products, at your expense, to the authorized service facility for the country where the Products were purchased. Kodak will repair or replace Products if they fail to function properly during the warranty period, subject to any conditions and/or limitations stated herein. Warranty service will include all labor as well as any necessary adjustments and/or replacement parts. If Kodak is unable to repair or replace a Product, Kodak will, at its option, refund the purchase price paid for the Product provided the Product has been returned to Kodak along with proof of the purchase price paid. Repair, replacement, or refund of the purchase price are the sole remedies under the warranty. If replacement parts are used in making repairs, those parts may be remanufactured, or may contain remanufactured materials. If it is necessary to replace the entire Product, it may be replaced with a remanufactured Product. Remanufactured Products, parts and

materials are warranted for the remaining warranty term of the original Product, or 90 days after the date of repair or replacement, whichever is longer.

Limitations

This warranty does not cover circumstances beyond Kodak's control. This warranty does not apply when failure is due to shipping damage, accident, alteration, modification, unauthorized service, misuse, abuse, use with incompatible accessories or attachments (such as third party ink or ink tanks), failure to follow Kodak's operation, maintenance or repacking instructions, failure to use items supplied by Kodak (such as adapters and cables), or claims made after the duration of this warranty. Kodak makes no other express or implied warranty for this product. In the event that the exclusion of any implied warranty is ineffective under the law, the duration of the implied warranty will be the length of the express warranty period specified on your KODAK Product packaging. The option of repair, replacement, or refund is Kodak's only obligation. Kodak will not be responsible for any special, consequential or incidental damages resulting from the sale, purchase, or use of this product regardless of the cause. Liability for any special, consequential or incidental damages (including but not limited to loss of revenue or profit, downtime costs, loss of the use of the equipment, cost of substitute equipment, facilities or services, or claims of your customers for such damages resulting from the purchase, use, or failure of the Product), regardless of cause or for breach of any written or implied warranty is expressly disclaimed.

Your rights

Some states or jurisdictions do not allow exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states or jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific rights, and you may have other rights which vary from state to state or by jurisdiction.

Outside the United States and Canada

In countries other than the United States and Canada, the terms and conditions of this warranty may be different. Unless a specific Kodak warranty is communicated to the purchaser in writing by a Kodak company, no warranty or liability exists beyond

any minimum requirements imposed by law, even though defect, damage, or loss may be by negligence or other act.

Regulatory compliance

FCC compliance and advisory

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed or used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: 1) reorient or relocate the receiving antenna; 2) increase the separation between the equipment and the receiver; 3) connect the equipment to an outlet on a circuit different from that to which the receiver is connected; 4) consult the dealer or an experienced radio/TV technician for additional suggestions. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Where shielded interface cables have been provided with the product or specified additional components or accessories elsewhere defined to be used with the installation of the product, they must be used in order to ensure compliance with FCC regulation. The KODAK Adapter K20-AM complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CE

Hereby, Eastman Kodak Company declares that this KODAK Product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Waste Electrical and Electronic Equipment labeling/battery disposal



In Europe: For human/environmental protection, it is your responsibility to dispose of this equipment and batteries at a collection facility established for this purpose (separate from municipal waste.) For more information, contact your retailer, collection facility, or appropriate local authorities; or go to www.kodak.com/go/recycle. Product weight: 85 g (3 oz) with memory card.



VCCI Class B ITE

この装置は、クラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。

取扱説明書に従って正しい取り扱いをして下さい。

VCCI-B

Korean Class B ITE

B급 기기
(가정용 방송통신기기)

이 기기는 가정용(B급)으로 전자파적합등록을
한 기기로서 주로 가정에서 사용하는 것을 목적
으로 하며, 모든 지역에서 사용할 수 있습니다.

Korean Li-ion Regulatory

취급상의 주의사항

- < 경고 > 발열, 화재, 폭발 등의 위험을 수반할 수 있으니 다음 사항을
- a) 육안으로 식별이 가능할 정도의 부풀음이 발생된 전지는 위험할 수 있으므로 제조자 또는 판매자로 즉시 문의할 것
 - b) 지정된 정품 충전기만을 사용할 것
 - c) 화기에 가까이 하지 말 것 (전자레인지에 넣지 말 것)
 - d) 여름철 자동차 내부에 방치하지 말 것
 - e) 찜질방 등 고온다습한 곳에서 보관, 사용하지 말 것
 - f) 이불, 전기장판, 카펫 위에 올려 놓고 장시간 사용하지 말 것
 - g) 전원을 켜 상태로 밀폐된 공간에 장시간 보관하지 말 것
 - h) 전지 단자에 목걸이, 동전, 열쇠, 시계 등 금속 제품이 닿지 않도록 주의할 것
 - i) 휴대 기기, 제조 업체가 보증한 리튬2차전지 사용할 것
 - j) 분해, 압착, 관통 등의 행위를 하지 말 것
 - k) 높은 곳에서 떨어뜨리는 등 비정상적 충격을 주지 말 것.
 - l) 60°C 이상의 고온에 노출하지 말 것
 - m) 습기에 접촉되지 않도록 할 것

기타정보

- 폐기 지침 : 각 지방자치단체의 법규에 의거하여 폐기할 것
- 충전방법에 대한 권고 지침
 - 1 본 충전지와 함께 사용할 디지털 카메라 사용자 설명서의 충전설명 참조하세요.
 - 2 코닥 정품 충전기 및 카메라에서만 충전하세요. (타사 충전셋 사용 금지)

제조년월 : Y = Year(제조년도의 마지막 숫자), WW = Week(제조년도의 주)

제조년월 표시 예 : 901 = 9 (2009년), 01 (첫째주)

Russian GOST-R



Eastman Kodak
Company

AЮ-40

Фотокамера изготовлена в Китае; остальные элементы - в соответствии с маркировкой.

China RoHS

环保使用期限 (EPUP)

在中国大陆，该值表示产品中存在的任何危险物质不得释放，以免危及人身健康、财产或环境的时间期限（以年计）。该值根据操作说明中所规定的产品正常使用而定。

有毒有害物质或元素名称及含量标识表						
部件名称	有毒有害物质或元素					
	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚
数码摄像机电路板组件	×	○	○	○	○	○
锂电池	×	○	○	○	○	○

○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T 11363-2006规定的限量要求以下。
 ×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T 11363-2006规定的限量要求。

Canadian DOC statement

DOC Class B Compliance—This Class B digital apparatus complies with Canadian ICES-003.

Observation des normes-Classe B—Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Australian C-Tick



N137

MPEG-4

Use of this product in any manner that complies with the MPEG-4 visual standard is prohibited, except for use by a consumer engaging in personal and non-commercial activities.

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